



SLOVENSKI STANDARD
oSIST prEN 10249-2:2006
01-junij-2006

Hladno oblikovane zagate iz nelegiranih jekel - 2. del: Mejni odstopki mer in tolerance oblik

Cold formed steel sheet piling - Part 2: Tolerances on shape and dimensions

Kaltgeformte Spundbohlen aus unlegierten Stählen - Teil 2: Grenzabmaße und Formtoleranzen

Palplanches formées a froid en acier - Partie 2: Tolérances sur les dimensions et les formes

iTeh STANDARD PREVIEW

(standards.iteh.ai)

oSIST prEN 10249-2:2006

<https://standards.iteh.ai/catalog/standards/sist/08eaf70c-9f6f-45dc-bf52-ac1563c1aac4/osist-pr-en-10249-2-2006>

Ta slovenski standard je istoveten z: prEN 10249-2

ICS:

77.140.45	Nelegirana jekla	Non-alloyed steels
77.140.70	Jekleni profili	Steel profiles

oSIST prEN 10249-2:2006

en

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[oSIST prEN 10249-2:2006](#)

<https://standards.iteh.ai/catalog/standards/sist/08eaf70c-9f6f-45dc-bf52-ae363e1aac4/osist-pren-10249-2-2006>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 10249-2

March 2006

ICS 77.140.70

Will supersede EN 10249-2:1995

English Version

Cold formed steel sheet piling - Part 2: Tolerances on shape and dimensions

Palplanches formées à froid en acier - Partie 2 : Tolérances sur les dimensions et les formes

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee ECISS/TC 10.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Control of tolerances - General	4
4 Height of profiles	4
5 Width of profiles.....	5
6 Wall thickness of profiles	5
7 Straightness of profiles.....	5
7.1 General.....	5
7.2 Bending.....	5
7.3 Curving	6
7.4 Twisting	7
8 Length	8
9 Squareness of ends.....	8
10 Angular deviation.....	9
11 Mass of profiles.....	9
12 Joints, overlapping	9
13 Options	10

iTeh STANDARD PREVIEW
(standards.iteh.ai)

oSIST prEN 10249-2:2006

<https://standards.iteh.ai/catalog/standards/sist/08eaf70c-9f6f-45dc-bf52-ae363e1aac4/osist-pren-10249-2-2006>

Foreword

This document (prEN 10249-2:2006) has been prepared by Technical Committee ECISS/TC 10 “Structural steels - Grades and qualities”, the secretariat of which is held by NEN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 10249-2:1995.

iTeh STANDARD PREVIEW (standards.iteh.ai)

[oSIST prEN 10249-2:2006](https://standards.iteh.ai/catalog/standards/sist/08eaf70c-9f6f-45dc-bf52-ae363e1aac4/osist-pren-10249-2-2006)

<https://standards.iteh.ai/catalog/standards/sist/08eaf70c-9f6f-45dc-bf52-ae363e1aac4/osist-pren-10249-2-2006>

prEN 10249-2:2006 (E)**1 Scope**

This part of this European Standard specifies the tolerances on dimensions, squareness of ends, straightness and mass of cold formed steel sheet piles which are defined in PrEN 10249-1.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 10051, *Continuously hot-rolled uncoated plate, sheet and strip of non-alloy and alloy steels - Tolerances on dimensions and shape.*

PrEN 10249-1, *Cold formed steel sheet piling - Part 1 : Technical delivery conditions*

3 Control of tolerances - General

3.1 All the measurements are taken outside of the zone deformed by cutting at a distance from the ends of at least 250 mm.

3.2 The dimensions are measured by instruments of appropriate accuracy.

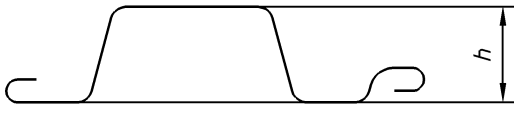
<https://standards.iteh.ai/catalog/standards/sist/08eaf70c-9f6f-45dc-bf52-ae363e1aac4/osist-pren-10249-2-2006>

4 Height of profiles

The tolerances on the height of sheet piles are given in Table 1.

Table 1 — Tolerances on the height of sheet piles ^a

Dimensions in millimetres

Designation	Figure	Nominal dimension	Tolerance
Height <i>h</i>		$h \leq 200$	± 4
		$200 < h \leq 300$	± 6
		$300 < h \leq 400$	± 8
		$400 < h$	± 10
^a Applicable to the different shapes of cold formed sheet piles, the figure shows an Omega cold-formed sheet-piling.			

iTeh STANDARD PREVIEW
(standards.iteh.ai)

5 Width of profiles

The tolerances on the width of profiles are as follows:

- individual sheet pile : ± 2 % of the nominal width
- pair of interlocked sheet piles : ± 3 % of the nominal width.

6 Wall thickness of profiles

The tolerances on the wall thickness of the profiles shall comply with the requirements of Table 3 of EN 10051, for a nominal width of strip and sheet over 1 800 mm.

7 Straightness of profiles

7.1 General

The controls of the profile straightness (measurement of bow-heights corresponding to bending and curving) shall be carried out on a pile which freely lies on a plane surface according to the following Figures 1 and 2.

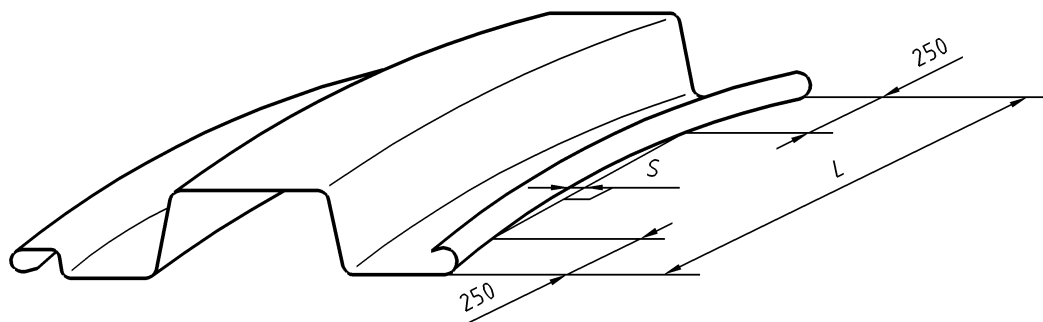
For Z-sheet piles, the controls are carried out on an interlocked pair of sheet piles, and if appropriate, on a welded pair of sheet piles when they are delivered welded.

7.2 Bending

The bow-height *S* in the horizontal plane of the sheet pile is the distance between the cord and the arc formed by the sheet pile edge (see Figure 1).

prEN 10249-2:2006 (E)

The bow-height S shall be $\leq 0,25 \% L$.



A

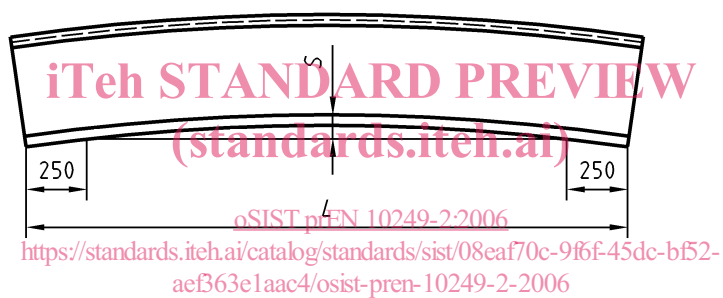
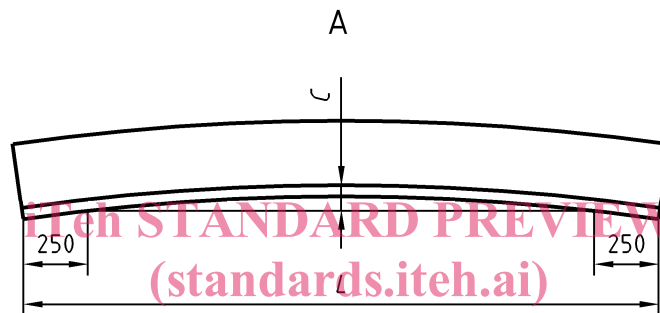
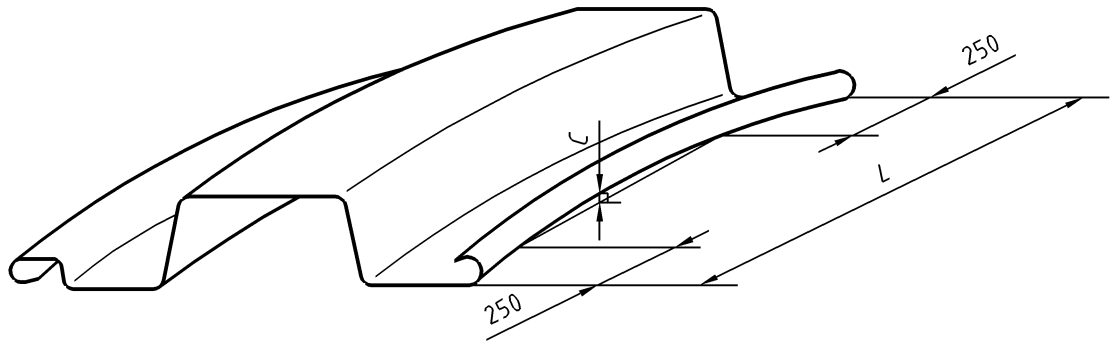


Figure 1 — Measurement of bending

7.3 Curving

The bow-height C in the vertical (perpendicular) plane of the sheet pile is the distance between the sheet pile edge in its middle and the reference plane surface (see Figure 2).

The bow-height C shall be $\leq 0,25 \% L$.



oSIST prEN 10249-2:2006
<https://standards.iteh.ai/catalog/standards/sist/08ca70c-986c-453c-bf52-ae363e1aac4/osist-pren-10249-2-2006>
Figure 2 — Measurement of curving

7.4 Twisting

One sheet pile end being fixed, the dimension V which characterizes the twisting is measured at the free end of the sheet pile with regard to the reference plane (see Figure 3).

The dimension V shall not exceed 2% L with a maximum of 100 mm.

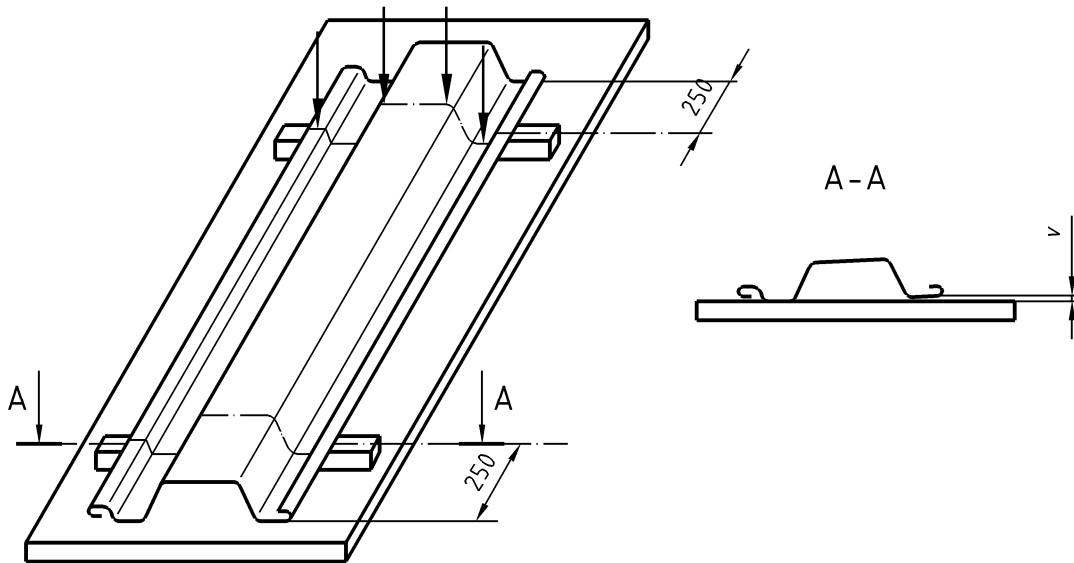


Figure 3 — Measurement of twisting

8 Length

The normal tolerance on the length L is ± 50 mm.

A reduced tolerance may be agreed at the time of the enquiry and order.

Option 1, see 13.2.

oSIST prEN 10249-2:2006
<https://standards.iteh.ai/catalog/standards/sist/08eaf70c-9f6f-45dc-bf52-ae363e1aac4/osist-pren-10249-2-2006>

9 Squareness of ends

The total deviation between the highest and the lowest point of the cutting plane t shall not exceed 2 % of the width of the profile, measured perpendicular to the longitudinal axis.

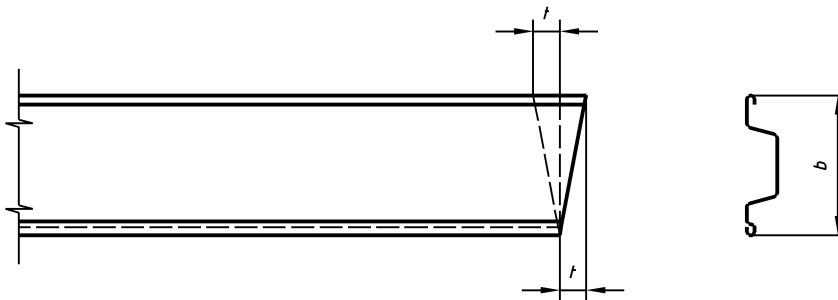


Figure 4 — Squareness of ends

When the sheet piles are delivered in seamed pairs by means of welds all along the lock, the upper end shall not present a misalignment t exceeding 20 mm.